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## **Project Name: Portable Neutron Generator Model**

**Customer:** Plasma & Ion Source Technology Group

Date: from 10/08/01 to 10/12/01

**Project team members:** 



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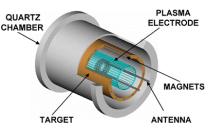


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## DESIGNWORKS





"Better by Design"

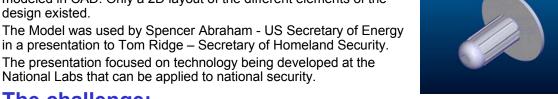
"Neat Neutrons"

## **Project:**

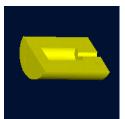
Ka-Ngo Leung in AFRD required a model of a Portable Neutron Generator design concept. The design was so new that it had not been modeled in CAD. Only a 2D layout of the different elements of the design existed.

The Model was used by Spencer Abraham - US Secretary of Energy in a presentation to Tom Ridge – Secretary of Homeland Security.

National Labs that can be applied to national security.









Design and build a physical model of the prototype using only the 2D layout as a guide. The model must be ready for display in two days!



With some quick CAD modeling and the DesignWorks' Rapid Prototyping capability, the CAD models were ready in one evening. The schedule was extended 2 days for FDM build time. The parts were finished, painted and assembled in one day. The finished model was featured on PhysicsWeb.org "Small is beautiful for new neutron generator" and in a news story on KRON television.















S.Dellinges Date:12/05/01